



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

Coal Correspond

January 10, 1992

To all Operators

Dear Operator:

Re: Submittal of Annual Report for 1991, Company Name, Mine Name, Permit Number, Folder #2, County, Utah

Enclosed please find the annual report information sheet and 1991 monitoring report to be submitted for the above noted mine(s). I have enclosed what I believe is a current list of outstanding permit stipulations, conditions, and Division Orders for your operation. Please review this list to ensure timely resolution of outstanding issues.

Please submit all of the information by March 31, 1992.

If you have any questions, please call me.

Sincerely,

Lowell P. Braxton
Associate Director, Mining

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Enclosures

cc: D. Haddock
P. Grubaugh-Littig

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Annual Coal Operators Report Mailing List

Revised 12/91

Mr. Jim Buck, General Manager
AMAX Coal Industries
One Riverfront Place
20 Northwest 1st Street
Evansville, Indiana 47708-1258

Castle Gate Mines

Mr. Mike Glasson, Sr. Geologist
Western Operations
Andalex Resources, Inc.
P. O. Box 902
Price, Utah 84501

Centennial Project
Wildcat Loadout

Mr. Roger Nelson
BHP Petroleum Utah International Inc.
550 California Street
San Francisco, California 94104

Knight Mine

Mr. J. E. Katlic
Executive Vice President
Blackhawk Coal Company
c/o American Electric Power Company
P. O. Box 700
Lancaster, Ohio 43130

Willow Creek (Susp)

Mr. Lee Edmonson
CAL MAT Company (Hidden Valley Coal Co.)
Properties Division
1801 East University Drive
Phoenix, Arizona 85034

Hidden Valley Mine

Mr. Dee Bray
Consolidation Coal Company
P.O. Box 527
Emery, Utah 84522

Emery Deep Mine

Mr. Wendell Owen
Co-Op Mining Company
P.O. Box 1245
Huntington, Utah 84528

Trail Cyn Mine
Bear Canyon

Mr. Allen Childs
Genwal Coal Company
P. O. Box 1201
Huntington, Utah 84528

Crandall Canyon

Mr. Jon Passic
Genwal Coal Company (Castle Valley Resources)
P.O. Box 766
Wellington, Utah 84526

Wellington Prep Plant

Mr. David W. Anderson, P.E.
Intermountain Power Agency
Department of Water & Power
City of Los Angeles, Room 1164
111 North Hope Street
Los Angeles, California 90012

Horse Canyon Mine

Mr. Dan Guy, Manager
Permitting and Compliance
Mountain Coal Company
P. O. Box 1378
Price, Utah 84501

Gordon Creek #2,7&8
Gordon Creek #3&6
C.V. Spur
Huntington Cyn #4
Trail Mtn

Mr. Blake Webster
PacifiCorp Electric Operations
Fuel Resources
One Utah Center, Suite 2100
201 South Main
Salt Lake City, Utah 84149-0021

Des-Bee-Dove
Deer Creek
Cottonwood/Wilberg

Mr. Ben Grimes
Sr Environmental Coordinator
Cyprus-Plateau Mining Company
P. O. Drawer P M C
Price, Utah 84501

Star Point Mine

Mr. Rick Olsen, President
Soldier Creek Coal Company
P. O. Box 1
Price, Utah 84501

Soldier Cyn Mine
Banning Siding

Mr. Ken Payne, General Manager
Southern Utah Fuel Company
P. O. Box P
Salina, Utah 84654

Convulsion Cyn Mine

Mr. Joe Fielder, General Manager
Sunnyside Coal Company
P.O. Box 99
Sunnyside, Utah 84133

Sunnyside Mine

Mr. Bob Eccli
U.S. Fuel Company
P. O. Box A
Hiawatha, Utah 84527

Hiawatha Complex

Mr. Glen Zumwalt, General Manager
Utah Fuel Company
P. O. Box 719
Helper, Utah 84526

Skyline Mine

Mr. Walter Wright
Valley Camp of Utah, Inc.
Scofield Route
Helper, Utah 84526

Belina Complex

Mr. Dwight Crossland
Western States Minerals Corp.
84 Glen Carran Circle
Sparks, Nevada 89431

J. B. King Mine

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COAL MINING AND RECLAMATION OPERATIONS FOR 1991

(Must be submitted to the Division by March 31, 1992)

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203
(801) 538-5340

Permittee: _____

Mine Name: _____

Mailing Address: _____

Company Representative: _____

Resident Agent: _____

Permit Number: _____

MSHA ID Number: _____

Date of Initial Permanent Program Permit: _____

Date of Permit Renewal: _____

Quantity of Coal Mined (tonnage) 1991: _____

Attach Updated Mine Sequence Map
(Same as Lease Royalty Payment Map and/or MSHA Progress Map)

All monitoring activities during the report period to be submitted with this report (including, but not limited to):

A. Summarized Water Monitoring Data:

- 1. List of monitoring points and their locations and respective frequencies of monitoring (monthly, quarterly, etc.) as approved in the PAP**
- 2. UPDES permit number, UPDES discharge points and their locations**
- 3. Summary of findings based on water monitoring during 1991**
- 4. Submit water monitoring as database files (ASCII, Lotus, dBase, etc.)
(Please contact Ken Wyatt if you have any questions)**

B. Precipitation or Other Climatological Data (please submit as database files: ASCII, Lotus, dBase, etc.-- Contact Ken Wyatt if you have any questions)

C. Subsidence Monitoring Report:

1. Brief description of monitoring system (monuments or aerial surveys, how monitoring is done, how frequently monitoring is done)
2. List of all monitoring points (if any) and their locations and amount of displacement of each
3. Map showing either monitoring points (if any) or a representation of subsidence which has occurred
4. Any owners and/or occupants of surface property and structures above the underground workings who were or will be mailed notification six months prior to mining (R614-301-525.300)

D. Vegetation Data (test plots) or Revegetation Success Monitoring (includes interim and final):

1. Test plot monitoring data or implementation
2. Quantitative results from interim or final seeding efforts
3. If quantitative monitoring was not required, then at minimum, a qualitative description of the interim or final vegetation
4. Describe any seeding done on site during the current year

E. Annual Impoundment Certification, (R614-301-514.312) which includes the following information:

1. Any appearances of instability
2. Structural weakness or other hazardous conditions
3. Depth and elevation of any impounded waters
4. Existing storage capacity
5. Any existing or required monitoring procedures and instrumentation
6. Any other aspects of the structure affecting stability

Suggested form enclosed

F. Annual Overburden, Spoil, Refuse, Roof, Floor, and Mid-Seam Data. For Consistency and completeness, please submit data for this reporting requirement in the following manner:

1. Location of sample site, sample interval, and sample matrix (if roof or floor, then include lithologic unit and if coal, then thickness of seam at sample site)
2. Sampling technique employed in the field (i.e., grab sample, composite, depth segregated or specific procedure outlined in the permit by chapter and page) and preparation prior to analysis (i.e., sieved sample, ground sample, air dried, oven dried, etc.)
3. Laboratory analysis report sheet which includes:
 - i. Sample time and date
 - ii. Date and time of lab analysis
 - iii. Analytical method(s) employed and references. Include the soil/spoil: water ratio.
4. Summary of findings based on monitoring

G. Any Other Information Required to be Submitted as Specified in your Permit Application Package and Permit

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ANNUAL MAINTENANCE INSPECTION CERTIFICATION

This certification shall be submitted to the Division as part of the "Annual Report".

1. I hereby certify, in accordance with R614-301-514.310 through R614-301-514.313 and others as applicable, that with respect to the following facility.

Name of Permittee _____ Permit No. _____

Mine Name _____

which is a (check one)

- ☐ temporary water impoundment
- ☐ permanent water impoundment
- ☐ processing waste impoundment

2. I, or persons under my supervision, have conducted adequate inspections of the maintenance of the structure; and
3. The maintenance has been performed in accordance with the Utah State Coal Program; and
4. The attached report is certified in accordance with the rules of professional conduct promulgated by the Utah Board of Examiners for Engineers; and
5. The attached report addresses the following points:
 - a. any appearances of instability, structural weaknesses or other hazardous conditions;
 - b. depth and elevation of impoundment water;
 - c. existing storage capacity;
 - d. existing or required monitoring procedures and instrumentation; and
 - e. any other aspects of the structure affecting stability.

CERTIFICATION REPORT

On _____, 1992, an inspection of _____
_____, Area No. ____'s sedimentation pond _____ revealed
the following:

- A. The pond has been constructed and maintained in accordance with the approved plan.
- B. The pond's dam appeared sound with no signs of instability or hazardous conditions.
- C. The water elevation was _____ feet. The water depth was _____ feet.
- D. The existing storage capacity is _____ acre-feet which is greater than the _____ acre-feet required by the approved plan.
- E. Ponds are inspected weekly for structural problems and pH levels. Bi-monthly sampling of discharge is performed with analysis results submitted monthly. U.P.D.E.S. and DOGM requirements are followed during sampling, analysis, and reporting.

Based on this field inspection, pond _____ has been certified as required by R614-301-514.310 through R614-301-514.313. A "Certification of Maintenance of Dams and Embankments" is attached.

Affix seal of engineer
making this certification.
All data in the seal
must be legible.

Seal

12/6/91

Additional A Team Enclosures

Cottonwood/Wilberg Outstanding Issues

Division Order 91A resubmitted 9/16/91 under review (Spillways).
Division Order 91B resubmitted 12/27/91 under review (Waste Rock Site).

Deer Creek Outstanding Issues

Division Order 90A (PHC) under review.

Gordon Creek #2, #7, and #8 Outstanding Issues

Division Order 91A resubmitted 12/13/91 under review (Highwalls).

Star Point Outstanding Issues

Division Order 91B submitted 12/20/91 under review (Spillways). (Variance)
Division Order 91C (PHC) extended to 4/17/92 for submittal

Sunnyside Mine Outstanding Issues

Division Order 91B submitted 12/23/91 under review.

Attachment A

CONDITION

Incidental Boundary Change
UTU-64263

Ongoing

The operator must conduct horizontal drilling ahead of the advance of the workings to the west into the incidental boundary change/lease modification area. This drilling must be conducted in coordination with the authorized officer of the BLM and be designed to detect significant flows of ground water well in advance of the mine workings, in accordance with the authorized officer of the BLM, and notify the Division of Oil, Gas and Mining. Further advance of mine workings within the wet area will not be authorized unless the operator can demonstrate that significant impacts will not occur.

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ATUTU-6426.IBC

ATTACHMENT A

CONDITION R614-301-233-(1) (HS) done

Within 45 days of permit renewal, the permittee must submit analyses of the five major fills within the mine area to include sampling procedures outlined on pages 4-100 through 4-102 and provide documentation of the depth of the soil mantle atop the coal waste within the tipple area.

Additionally, for the haul road between stations 165+00 through 243+18, the permittee must identify a borrow site and provide necessary information for the development and reclamation of the site or conduct field site trials to demonstrate the suitability of the Des-Bee-Dove Haul Road fill material as a plant growth medium for final reclamation.

CONDITION R614-301-514.300-(1) (JK) done

Within 45 days of permit renewal, the permittee must provide, for inclusion in the Operation Plan, a commitment to do the following:

- 1) Inspection of the sediment pond quarterly, either by a professional engineer or else by a specialist experienced in the construction of impoundments (514.310);
- 2) Certification of the quarterly report promptly after each inspection by a qualified, registered, professional engineer and to send a copy of the report to the Division (514.312); and
- 3) Annual certification of the sediment pond by a qualified, registered, professional engineer and inclusion of the certification in the Annual Report.

CONDITION R614-301-542.300-(1) (JK) done

Within 45 days of permit renewal, the permittee must revise and submit the following text and maps for inclusion in the PAP:

- 1) Map 3-10 (Existing Earthen Structures) must be modified to show, by shading, those areas which are used in estimating volumes of material which will contribute to the backfilling of highwalls, portal faceups, and the bathhouse/warehouse cut. This map must also show, by

crosshatching, highwalls, portal faceups, and other areas which will receive fill material.

- 2) Map 4-1 (Final Reclamation Map), sheet 2, must be modified to accurately show the anticipated final surface configuration of the present earthen fill structures.
- 3) Map 4-1 (Final Reclamation Map), sheet 5, must be modified to correspond to Map 3-10, i.e., it must show those areas that will receive and those that will contribute fill material with the same shading and crosshatch scheme used on Map 3-10.
- 4) Accurate cross-sections of the bathhouse/warehouse pad must be added to Map 4-1 (Final Reclamation Map), sheet 4. These cross sections must demonstrate that there is sufficient material available at the edge of the bathhouse/warehouse pad to completely backfill the pad, when that material is combined with the material that will be contributed by the other fill structures.
- 5) Earthwork quantities summarized on page 4-6 must be modified to verify the recalculated volume estimates as a result of the map and cross section changes.

CONDITION R614-301-728-(1) (TM)

more info due 1/31/92

Within 45 days of permit renewal, the permittee must submit a detailed plan for inclusion in the PAP, as to how the following information from the proposed test plots will be achieved, based on the following requirements:

- | | |
|----------------|---|
| <u>728.331</u> | Predicted sediment yield from the reclaimed haul road area; |
| <u>728.332</u> | Acidity, total suspended and dissolved solids and other important water quality parameters of local impact from the impact of coal mining and reclamation operations; and |
| <u>728.335</u> | Characterizations required by the Division for the test plots which must include: |

- 1) Application methodology assessment for hydromulch (i.e., treatment method-soil prewetted prior to application to allow for better absorption of stabilizers) and other treatments, implying different methods of application must be tried and evaluated;
- 2) Soil bed preparation (roughness of seedbed) in relation to erosion control; and
- 3) Runoff collection on test plots to determine water quality (i.e., TDS and TSS).

CONDITION R614-301-731-(1) (TM) *more info due 1/31/92*

Within 45 days of permit renewal, the permittee must submit technically adequate plans, for inclusion in the PAP, for sediment control (BTCA) on all areas not being treated by the sediment pond during reclamation. The PAP must include all sediment control measures and siltation measures with design criteria, cross-sections and maps as required by rule R614-301-742.110, Sediment Control Measures.

CONDITION R614-301-731.121-(1) (TM) *more info due 1/31/92*

Within 45 days of permit renewal, the permittee must submit a detailed BTCA plan as an appendix to the PAP which specifically addresses the following issues (this is required in addition to the current plan, to use contour furrows and berms as shown on Plate 4-1, sheet 3 of 5):

- 1) A plan for providing sediment control during construction and following construction of all stream crossings and culvert removal sites where permanent diversions will be installed;
- 2) A revised and upgraded plan for the contour furrows and berms as shown on Plate 4-1, sheet 3 of 5 to address the runoff storage capacity of these BTCA measures in relation to the 10-year, 24-hour storm runoff volume. This will verify the treatments' effectiveness in providing treatment for all areas not draining to the sediment pond. This must be included in a BTCA Appendix showing all areas treated with BTCA measures other than sediment ponds; and

- 3) The assessment of the runoff water quality must be included as a design criteria for the test plot study. The data must be interpreted and included as part of the BTCA appendix upon submittal following test plot implementation. The plan must identify the surface water quality and quantity parameters to be monitored, sampling frequency and site location.

CONDITION R614-301-731.700-(1) (TM) *more info due 1/31/92*

Within 45 days of permit renewal, the permittee must submit certified cross-sections of the sediment pond and certify maps HM-1 and HM-5 per the requirements identified in R614-301-731.730, R614-301-731.740 and R614-301-731.750.

CONDITION R614-301-742.220-(1) (TM) *more info due 1/31/92*

Within 45 days of permit renewal, the permittee must provide drawings (Appendix VIII) that provide consistent information regarding the sediment pond. Three as-built drawings in Appendix VII provide three different pond bottom elevations. Page 3-54 of the PAP states five feet of clearance between a full sediment load elevation and the decant elevation. None of this information is in agreement (drawing #01-52-1-015 was revised on February 24, 1989 and October 1, 1984, to show as-built plans).

In addition to accurate as-built drawings and cross-sections being provided, the following information must also be submitted:

- 1) Sediment levels and clean-out elevations marked on all cross-sections (cross-sections are not marked as-built and certified);
- 2) Decant and clean-out procedures and a sediment testing and storage plan per Division guidelines;
- 3) A discussion of how sediment levels are determined to meet the 60% clean-out elevation determination; and
- 4) Calculations to prove that the open channel spillway is of nonerodible construction and capable of maintaining sustain flows. Riprap sizing calculations for the spillway must be included in Appendix VIII.

CONDITION R614-301-742.300-(1) (TM)

Within 45 days of permit renewal, all hydrologic calculations for existing hydrologic structures at the Des-Bee-Dove Mine site must be submitted for inclusion in the PAP.

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DES-STIP.TA

Deer Creek Mine
Attachment "A"
Special Conditions
September 13, 1988

ACT/015/018

Ongoing

Condition No. 7

- A. The applicant shall restore areas impacted by subsidence caused surface cracks or other subsidence features such as escarpments (not to include naturally occurring escarpments which are not a result of mining) which are of a size or nature that could, in the Division's determination, either injure or kill grazing livestock. Restoration shall include recontouring of the affected land surface including measures to prevent rilling, and revegetation in accordance with the approved permanent revegetation plan in the PAP. Restoration shall be undertaken after annual subsidence survey data indicate that the surface has stabilized, but in all cases, restoration and revegetation shall be completed prior to bond release.
- B. The applicant shall compensate surface owners, except for land owned by the applicant, for lands which cannot be safely grazed due to hazards caused by surface effects of subsidence, with land (in close proximity) of comparable size and grazing capacity to be used for grazing until restoration of the damaged land is achieved.
- C. The applicant shall compensate at a fair market value, owners of livestock which are injured or killed as a direct result of surface hazards caused by subsidence.

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ATTACHMENT A

Special Condition, R614-301-731.200 Water Monitoring

The applicant must monitor quality and quantity of the Star Point aquifer at a point where the flow in the aquifer leaves the permit area. The most likely place to develop this monitoring site is in the area near DH-5 (Figure 6-4). The applicant will be required to develop a well to monitor aquifer parameters, seasonal fluctuation, mining influence and hydrologic tests. The applicant will be required to construct the monitoring well within 90 days of permit approval. This information is requested in accordance with the requirements for water monitoring regulations R614-301-731.200 through R614-301-731.215.

Letter sent 12/27/91

Proposal due 1/27/92 to Division

SPECIAL CONDITIONS

PERMIT RENEWAL

GORDON CREEK #3 AND #6 RECLAIMED MINE

Condition #1: R614-301-300 Biology (SW)

approved

Within 30 days of permit renewal, the operator must submit clarifying information regarding the reclamation success standards for final bond release.

- 1) The Gordon Creek #3 and #6 permit states that reclamation success will be based on cover and production. However, the postmining land uses of livestock grazing, hunting, and deer forage, etc. require that tree and shrub stocking rates must also be a success standards. If tree and shrub stocking rates are used as a success standards, then shrub density measurements must be taken in the reference areas and on the site. Specific commitments must also be included in the permit as to stocking rates.
- 2) Two reference areas, sagebrush-grass and oak shrubland areas are used as the success standards. Map 9-1 is not of sufficient scale to determine which reclaimed areas are to be compared to the grass or the oak reference area. Additionally, the vegetation types on the road from the gate to the facilities area are not shown on the map. Details of the success standards for each reclaimed areas must be included in the permit in writing, or a map with those designations must be provided.
- 3) The success standards for cover, production and shrub density must be met for two consecutive years at a 90 percent statistical confidence interval. Please include this commitment in the permit.

Condition #2: R614-301-400 Land Use (SW)

*submitted 12/21/91
under review*

Within 30 days of permit renewal, the operator must submit consent letters from all the landowners of the reclaimed area.

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ATTACHMENT A
STIPULATIONSStipulation R614-301-120 and R614-301-140-(JK)*done*

Within 60 days of permit approval, the applicant must submit an accurate and current as-built topographical map of the J. B. King reclaimed mine site suitable for insertion into the Permit Application Package (PAP).

Stipulation R614-301-356.100-(SMW)*submitted
under review*

Within 60 days of permit approval, the applicant must submit a vegetative sampling plan suitable for insertion into the PAP which partitions the reseeded areas into at least three sample areas with similar slope and aspect. A weight method of averaging and analyzing the data must be included in the plan.

Stipulation R614-301-742.113-(TM)*(NOV N91-35-06-01) issued 11/15/91
abatement date 1/15/92*

Within 60 days of permit approval, the applicant must submit a plan to provide long term solutions for phasing out silt fences and incorporating more permanent erosion control structures in their place. The plan must identify the structures that will be used and how they will be designed and implemented. This material must be submitted for insertion into the PAP.

Additional B Team Enclosures

Wellington Preparation Plant Outstanding Issues

Stipulation R614-301-112.500
Stipulation R614-301-116.100
Stipulation R614-301-121

Belina Complex Outstanding Issues

Stipulation #3-(OSM)

Convulsion Canyon Mine Possible Outstanding Issues

13 stipulations on revised permit August 26, 1988.

Soldier Canyon Mine Possible Outstanding Issues

31 stipulations on revised permit

Willow Creek Mine Outstanding Issues

Division Order #91B

Castle Gate Mine Outstanding Issues

Division Order December 18, 1990: Items #2, 3, 4, 13, 17, 18, 19, 21, & 25.

Hiawatha Mines
Possible Outstanding Issues

19 stipulations attached to March 13, 1987 permit.

Knight Mine
Possible Outstanding Issues

6 stipulations to permit renewal issued October 31, 1988.

Crandall Canyon Mine
Possible Outstanding Issues

7 stipulations attached to revised permit issued April 22, 1991.

Emery Deep Mine
Possible Outstanding Issues

4 stipulations attached to permit renewal issued January 8, 1991.

Banning Loadout
Possible Outstanding Issues

8 stipulations attached to permit of October 24, 1988.

Centennial Project
Outstanding Issues

10 stipulations on renewal issued January 5, 1992.